

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 September 2005 (09.09.2005)

PCT

(10) International Publication Number
WO 2005/081778 A2

(51) International Patent Classification: Not classified

(21) International Application Number:
PCT/US2005/003062

(22) International Filing Date: 1 February 2005 (01.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/545,119 17 February 2004 (17.02.2004) US

(71) Applicant (for all designated States except US): **EXXON-MOBIL RESEARCH AND ENGINEERING COMPANY** [US/US]; 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ELIA, Christine, Nicole** [US/US]; 437 Garretson Road, Bridgewater, NJ 08807 (US). **SISKIN, Michael** [US/US]; 56 Shongum Road, Randolph, NJ 07869 (US). **KERBY, Michael, Charles** [US/US]; 3160 Troon Drive, Center Valley, PA 18034 (US). **BISHOP, Adeana, Richelle** [US/US]; 15422 Campanile Court, Baton Rouge, LA 70810 (US). **MOZELESKI, Edmund, John** [US/US]; 28 Hoffman Drive, Califon, NJ 07830 (US). **MALEK, Andrzej** [CA/US]; 15314 Lockett Lane, Baton Rouge, LA 70810 (US).

(74) Agents: **PURWIN, Paul, E.** et al.; ExxonMobil Research and Engineering Company, 1545 Route 22 East, P.O. Box 900, Annandale, NJ 08801-0900 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

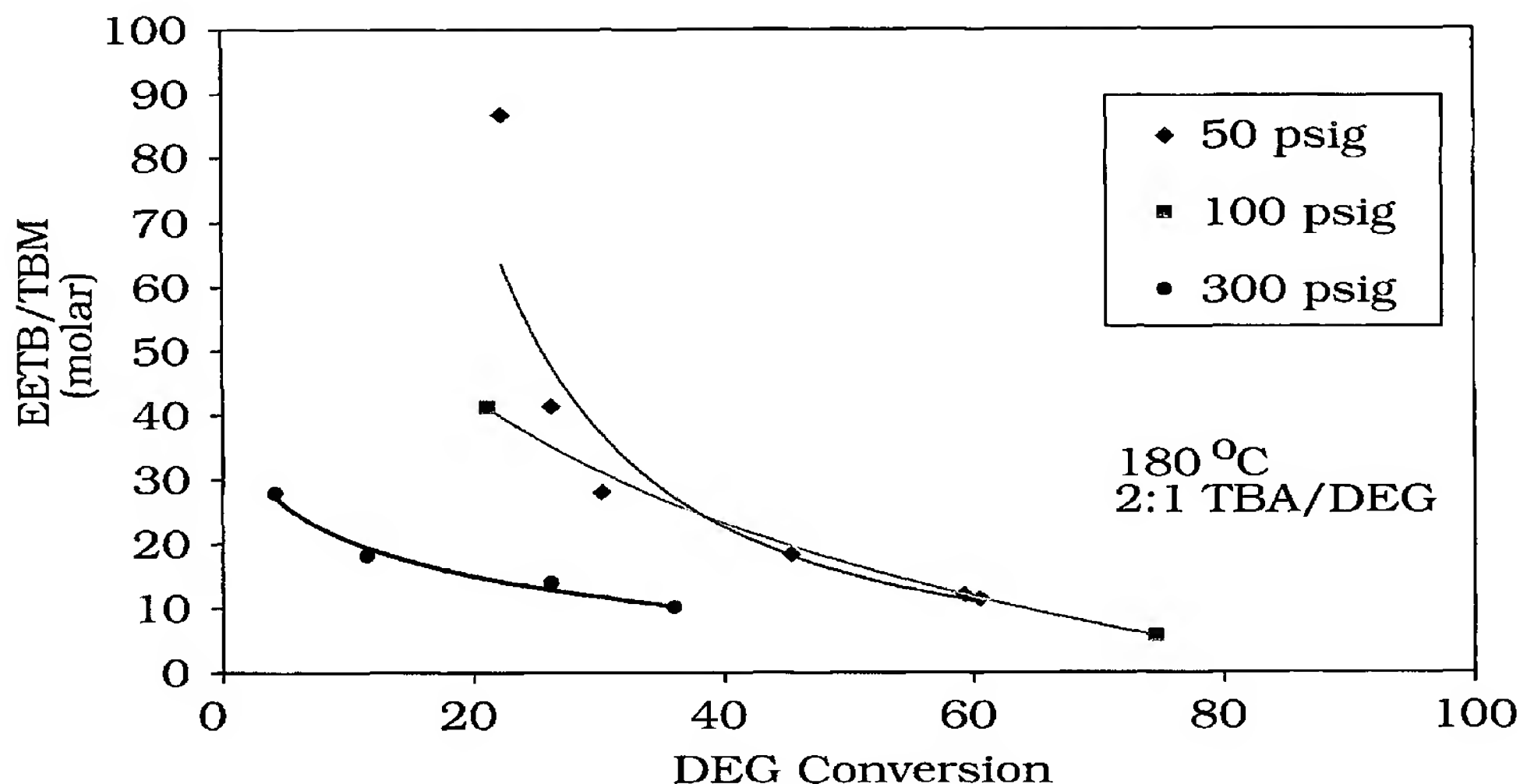
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IMPROVED SYNTHESIS OF SEVERELY STERICALLY HINDERED AMINO-ETHER ALCOHOLS AND DIAMINOPOLYALKENYL ETHERS USING A HIGH ACTIVITY POWDER CATALYST



(57) Abstract: The present invention relates to a process for preparing severely sterically hindered secondary amine ether alcohols and diamine polyalkenyl ethers by reacting a primary amino compound with a polyalkenylether glycol in the presence of a high activity nickel powder hydrogenation catalyst which is marked by high conversion of reactants and increased selectivity to desired final product.

WO 2005/081778 A2